

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A method for collecting sleep quality data, comprising:
 detecting at least one physiological condition and at least one non-physiological conditions condition associated with sleep quality of a patient, the non-physiological condition comprising an ambient condition external to the patient other than time that affects the sleep quality of the patient; and
 collecting sleep quality data based on the detected conditions, wherein collecting the sleep quality data is performed at least in part ~~implantably~~ by an implantable device.
2. (original) The method of claim 1, wherein detecting the conditions comprises detecting a cardiovascular system condition.
3. (original) The method of claim 1, wherein detecting the conditions comprises detecting a respiratory system condition.
4. (original) The method of claim 1, wherein detecting the conditions comprises detecting a muscle system condition.
5. (original) The method of claim 1, wherein detecting the conditions comprises detecting a blood chemistry condition.
6. (original) The method of claim 1, wherein detecting the conditions comprises detecting a nervous system condition.
7. (original) The method of claim 1, wherein detecting the conditions comprises detecting an environmental condition.

8. (original) The method of claim 1, wherein detecting the conditions comprises detecting a contextual condition.

9. (original) The method of claim 1, wherein collecting the sleep quality data comprises collecting data associated with sleep stages.

10. (original) The method of claim 1, wherein collecting the sleep quality data comprises collecting data associated with sleep disruption.

11. (original) The method of claim 1, wherein collecting the sleep quality data comprises collecting data associated with disordered breathing.

12. (original) The method of claim 1, wherein collecting the sleep quality data comprises collecting data associated with a movement disorder.

13. (original) The method of claim 1, further comprising storing the collected sleep quality data.

14. (original) The method of claim 1, further comprising transmitting the collected sleep quality data.

15-34. (canceled)

35. (currently amended) A method for assessing sleep quality of a patient, comprising:
detecting at least one physiological condition and at least one non-physiological
~~conditions~~ condition associated with the sleep quality of the patient, the non-physiological
condition comprising an ambient condition external to the patient other than time that
affects the sleep quality of the patient;

collecting sleep quality data based on the detected conditions; and
evaluating the sleep quality of the patient using the collected data, wherein at least one of collecting the sleep quality data and evaluating the sleep quality is performed at least in part ~~implantably~~ by an implantable device.

36. (original) The method of claim 35, wherein both collecting the sleep quality data and evaluating the sleep quality are performed at least in part implantably.

37. (original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more sleep stages.

38. (original) The method of claim 35, wherein evaluating the sleep quality comprises detecting events associated with sleep disruption.

39. (original) The method of claim 38, wherein detecting the events associated with sleep disruption comprises detecting disordered breathing.

40. (original) The method of claim 38, wherein detecting the events associated with sleep disruption comprises detecting movement disorders.

41. (original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more metrics associated with sleep quality.

42. (original) The method of claim 35, wherein evaluating the sleep quality comprises trending one or more metrics associated with sleep quality over time.

43. (original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more metrics associated with disordered breathing.

44. (original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more metric associated with movement disorders.

45. (original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more composite metrics based on metrics associated with sleep and metrics associated with events that disrupt sleep.

46. (original) The method of claim 35, further comprising transmitting at least one of the sleep quality data and the sleep quality evaluation to a separate device.

47. (original) A method for evaluating sleep quality, comprising:

detecting one or more conditions associated with the sleep quality of a patient during a period of wakefulness;

collecting sleep quality data based on the detected one or more conditions; and

evaluating the sleep quality of the patient using the collected sleep quality data, wherein at least one of collecting the sleep quality data and evaluating the sleep quality is performed at least in part implantably.

48. (original) The method of claim 47, wherein detecting the one or more conditions comprises detecting a physiological condition.

49. (original) The method of claim 47, wherein detecting the one or more conditions comprises detecting a non-physiological condition.

50. (original) The method of claim 47, wherein detecting the one or more conditions comprises detecting a nervous system condition.

51. (original) The method of claim 47, wherein detecting the one or more conditions comprises detecting a cardiovascular system condition.

52. (original) The method of claim 47, wherein
detecting the one or more conditions comprises detecting patient activity; and
collecting the sleep quality data comprises collecting data associated with the patient
activity during the period of wakefulness.

53. (original) The method of claim 47, further comprising storing the collected sleep
quality data.

54. (original) The method of claim 47, further comprising transmitting the collected sleep
quality data.

55. (original) The method of claim 47, wherein evaluating the sleep quality comprises
determining one or more sleep quality metrics.

56. (original) The method of claim 47, further comprising transmitting at least one of the
sleep quality data and the sleep quality evaluation to a separate device.

57-96 (canceled)